

#26



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RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/500,700

DATE: 01/22/2003

TIME: 15:16:31

Input Set : A:\SCRIPT1160-4.ST25.txt
 Output Set: N:\CRF4\01222003\I500700.raw

2 <110> APPLICANT: THE SCRIPPS RESEARCH INSTITUTE
 3 BARBAS III, Carlos F.
 4 GOTTESFELD, Joel M.
 5 WRIGHT, Peter E.
 7 <120> TITLE OF INVENTION: ZINC FINGER PROTEIN DERIVATIVES AND METHODS THEREFOR
 9 <130> FILE REFERENCE: SCRIPT1160-4
 11 <140> CURRENT APPLICATION NUMBER: US 09/500,700
 C--> 12 <141> CURRENT FILING DATE: 2003-01-10
 14 <150> PRIOR APPLICATION NUMBER: US 08/863,813
 15 <151> PRIOR FILING DATE: 1997-05-27
 17 <150> PRIOR APPLICATION NUMBER: US 08/676,318
 18 <151> PRIOR FILING DATE: 1996-12-30
 20 <150> PRIOR APPLICATION NUMBER: PCT/US95/00829
 21 <151> PRIOR FILING DATE: 1995-01-18
 23 <150> PRIOR APPLICATION NUMBER: US 08/312,604
 24 <151> PRIOR FILING DATE: 1994-09-28
 26 <150> PRIOR APPLICATION NUMBER: US 08/183,119
 27 <151> PRIOR FILING DATE: 1994-01-18
 29 <160> NUMBER OF SEQ ID NOS: 127
 31 <170> SOFTWARE: PatentIn version 3.1
 33 <210> SEQ ID NO: 1
 34 <211> LENGTH: 32
 35 <212> TYPE: PRT
 36 <213> ORGANISM: Xenopus
 38 <220> FEATURE:
 39 <221> NAME/KEY: MISC_FEATURE
 40 <222> LOCATION: (1)..(1)
 41 <223> OTHER INFORMATION: Xaa is Ty~~x~~ or Phe
 43 <220> FEATURE:
 44 <221> NAME/KEY: MISC_FEATURE
 45 <222> LOCATION: (2)..(2)
 46 <223> OTHER INFORMATION: Xaa is any Amino Acid
 48 <220> FEATURE:
 49 <221> NAME/KEY: MISC_FEATURE
 50 <222> LOCATION: (4)..(7)
 51 <223> OTHER INFORMATION: Xaa is /any Amino Acid
 53 <220> FEATURE:
 54 <221> NAME/KEY: MISC_FEATURE
 55 <222> LOCATION: (9)..(11)
 56 <223> OTHER INFORMATION: Xaa is any Amino Acid
 58 <220> FEATURE:
 59 <221> NAME/KEY: MISC_FEATURE
 60 <222> LOCATION: (13)..(17)

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Input Set : A:\SCRIPT1160-4.ST25.txt
Output Set: N:\CRF4\01222003\I500700.raw

61 <223> OTHER INFORMATION: Xaa is any Amino Acid
63 <220> FEATURE:
64 <221> NAME/KEY: MISC_FEATURE
65 <222> LOCATION: (19)..(20)
66 <223> OTHER INFORMATION: Xaa is any Amino Acid
68 <220> FEATURE:
69 <221> NAME/KEY: MISC_FEATURE
70 <222> LOCATION: (22)..(25)
71 <223> OTHER INFORMATION: Xaa is any Amino Acid
73 <220> FEATURE:
74 <221> NAME/KEY: MISC_FEATURE
75 <222> LOCATION: (27)..(32)
76 <223> OTHER INFORMATION: Xaa is any Amino Acid
78 <220> FEATURE:
79 <221> NAME/KEY: MISC_FEATURE
80 <222> LOCATION: (6)..(6)
81 <223> OTHER INFORMATION: Xaa may be missing
83 <220> FEATURE:
84 <221> NAME/KEY: MISC_FEATURE
85 <222> LOCATION: (7)..(7)
86 <223> OTHER INFORMATION: Xaa may be missing
88 <220> FEATURE:
89 <221> NAME/KEY: MISC_FEATURE
90 <222> LOCATION: (25)..(25)
91 <223> OTHER INFORMATION: Xaa may be missing
93 <220> FEATURE:
94 <221> NAME/KEY: MISC_FEATURE
95 <222> LOCATION: (29)..(29)
96 <223> OTHER INFORMATION: Xaa may be missing
98 <220> FEATURE:
99 <221> NAME/KEY: MISC_FEATURE
100 <222> LOCATION: (30)..(30)
101 <223> OTHER INFORMATION: Xaa may be missing
103 <220> FEATURE:
104 <221> NAME/KEY: MISC_FEATURE
105 <222> LOCATION: (31)..(31)
106 <223> OTHER INFORMATION: Xaa may be missing
108 <220> FEATURE:
109 <221> NAME/KEY: MISC_FEATURE
110 <222> LOCATION: (32)..(32)
111 <223> OTHER INFORMATION: Xaa may be missing
113 <400> SEQUENCE: 1
W--> 115 Xaa Xaa Cys Xaa Xaa Xaa Cys Xaa Xaa Phe Xaa Xaa Xaa Xaa
116 1 5 10 15
W--> 119 Xaa Leu Xaa Xaa His Xaa Xaa Xaa Xaa His Xaa Xaa Xaa Xaa Xaa Xaa
120 20 25 30
123 <210> SEQ ID NO: 2
124 <211> LENGTH: 36
125 <212> TYPE: DNA

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Input Set : A:\SCRIP1160-4.ST25.txt
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126 <213> ORGANISM: Artificial Sequence
 128 <220> FEATURE:
 129 <223> OTHER INFORMATION: Primer for amplification of pZif89
 131 <400> SEQUENCE: 2
 132 atgaaaactgc tcgagcccta tgcttgcctt gtcgag
 135 <210> SEQ ID NO: 3
 136 <211> LENGTH: 45
 137 <212> TYPE: DNA
 138 <213> ORGANISM: Artificial Sequence
 140 <220> FEATURE:
 141 <223> OTHER INFORMATION: Primer for amplification of pZif89
 143 <400> SEQUENCE: 3
 144 gagggaggagg agactatgt ctttgtct taaatggatt ttgg
 147 <210> SEQ ID NO: 4
 148 <211> LENGTH: 273
 149 <212> TYPE: DNA
 150 <213> ORGANISM: Mouse
 152 <220> FEATURE:
 153 <221> NAME/KEY: CDS
 154 <222> LOCATION: (1)..(273)
 155 <223> OTHER INFORMATION:
 W--> 157 <400> 4
 158 ctc gag ccc tat gct tgc cct gtc gag tcc tgc gat cgc cgc ttt tct 48
 159 Leu Glu Pro Tyr Ala Cys Pro Val Glu Ser Cys Asp Arg Arg Phe Ser
 160 1 5 10 15
 162 cgc tcg gat gag ctt acc cgc cat atc cgc atc cac aca ggc cag aag 96
 163 Arg Ser Asp Glu Leu Thr Arg His Ile Arg Ile His Thr Gly Gln Lys
 164 20 25 30
 166 ccc ttc cag tgt cga ata tgc atg cgt aac ttc agt cgt agt gac cac 144
 167 Pro Phe Gln Cys Arg Ile Cys Met Arg Asn Phe Ser Arg Ser Asp His
 168 35 40 45
 170 ctt acc acc cac atc cgc acc cac aca ggc gag aag cct ttt gcc tgt 192
 171 Leu Thr Thr His Ile Arg Thr His Thr Gly Glu Lys Pro Phe Ala Cys
 172 50 55 60
 174 gac att tgt ggg agg aag ttt gcc agg agt gat gaa cgc aag agg cat 240
 175 Asp Ile Cys Gly Arg Lys Phe Ala Arg Ser Asp Glu Arg Lys Arg His
 176 65 70 75 80
 178 acc aaa atc cat tta aga cag aag gac act agt 273
 179 Thr Lys Ile His Leu Arg Gln Lys Asp Thr Ser
 180 85 90
 183 <210> SEQ ID NO: 5
 184 <211> LENGTH: 91
 185 <212> TYPE: PRT
 186 <213> ORGANISM: Mouse
 188 <400> SEQUENCE: 5
 190 Leu Glu Pro Tyr Ala Cys Pro Val Glu Ser Cys Asp Arg Arg Phe Ser 36
 191 1 5 10 15
 194 Arg Ser Asp Glu Leu Thr Arg His Ile Arg Ile His Thr Gly Gln Lys
 195 20 25 30

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Input Set : A:\SCRIPT1160-4.ST25.txt
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198 Pro Phe Gln Cys Arg Ile Cys Met Arg Asn Phe Ser Arg Ser Asp His
199 35 40 45
202 Leu Thr Thr His Ile Arg Thr His Thr Gly Glu Lys Pro Phe Ala Cys
203 50 55 60
206 Asp Ile Cys Gly Arg Lys Phe Ala Arg Ser Asp Glu Arg Lys Arg His
207 65 70 75 80
210 Thr Lys Ile His Leu Arg Gln Lys Asp Thr Ser
211 85 90
214 <210> SEQ ID NO: 6
215 <211> LENGTH: 22
216 <212> TYPE: DNA
217 <213> ORGANISM: Artificial Sequence
219 <220> FEATURE:
220 <223> OTHER INFORMATION: FTX3 primer
222 <400> SEQUENCE: 6
223 gcaatttaacc ctcactaaag gg 22
226 <210> SEQ ID NO: 7
227 <211> LENGTH: 21
228 <212> TYPE: DNA
229 <213> ORGANISM: Artificial Sequence
231 <220> FEATURE:
232 <223> OTHER INFORMATION: BZF3 primer
234 <400> SEQUENCE: 7
235 ggcaaacttc ctcccacaaa t 21
238 <210> SEQ ID NO: 8
239 <211> LENGTH: 60
240 <212> TYPE: DNA
241 <213> ORGANISM: Artificial Sequence
243 <220> FEATURE:
244 <223> OTHER INFORMATION: ZF36K primer
246 <220> FEATURE:
247 <221> NAME/KEY: misc_feature
248 <222> LOCATION: (22)..(41)
249 <223> OTHER INFORMATION: n is any nucleotide
251 <400> SEQUENCE: 8
W- 252 atttgtggga ggaagtgc cnkagtnnk nnknnknkn nkcatacaa aatccattta 60
255 <210> SEQ ID NO: 9
256 <211> LENGTH: 21
257 <212> TYPE: DNA
258 <213> ORGANISM: Artificial Sequence
260 <220> FEATURE:
261 <223> OTHER INFORMATION: R3B primer
263 <400> SEQUENCE: 9
264 ttgatattca caaacgaatg g 21
267 <210> SEQ ID NO: 10
268 <211> LENGTH: 21
269 <212> TYPE: DNA
270 <213> ORGANISM: Artificial Sequence
272 <220> FEATURE:

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Input Set : A:\SCRIPT1160-4.ST25.txt
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273 <223> OTHER INFORMATION: ZFNsiB primer
 275 <400> SEQUENCE: 10
 276 catgcattt cgacactgga a 21
 279 <210> SEQ ID NO: 11
 280 <211> LENGTH: 66
 281 <212> TYPE: DNA
 282 <213> ORGANISM: Artificial Sequence
 284 <220> FEATURE:
 285 <223> OTHER INFORMATION: ZF2r6F primer
 287 <220> FEATURE:
 288 <221> NAME/KEY: misc_feature
 289 <222> LOCATION: (28)..(44)
 290 <223> OTHER INFORMATION: n is any nucleotide
 292 <400> SEQUENCE: 11
 W4 > 293 cagtgtcgaa tatgcattcgta taacttcnnk nnknnknnkn nknnkaccac ccacatccgc 60
 295 acccac 66
 298 <210> SEQ ID NO: 12
 299 <211> LENGTH: 66
 300 <212> TYPE: DNA
 301 <213> ORGANISM: Artificial Sequence
 303 <220> FEATURE:
 304 <223> OTHER INFORMATION: ZFI6rb primer
 306 <220> FEATURE:
 307 <221> NAME/KEY: misc_feature
 308 <222> LOCATION: (26)..(45)
 309 <223> OTHER INFORMATION: n is any nucleotide
 311 <400> SEQUENCE: 12
 W6 > 312 ctggcctgtg tggatgcgga tatgmnmmnn mnmmnmnnc gamnnagaaa agcggcgatc 60
 314 gcagga 66
 317 <210> SEQ ID NO: 13
 318 <211> LENGTH: 24
 319 <212> TYPE: DNA
 320 <213> ORGANISM: Artificial Sequence
 322 <220> FEATURE:
 323 <223> OTHER INFORMATION: ZFIF primer
 325 <400> SEQUENCE: 13
 326 catatccgca tccacacagg ccag 24
 329 <210> SEQ ID NO: 14
 330 <211> LENGTH: 8
 331 <212> TYPE: PRT
 332 <213> ORGANISM: Artificial Sequence
 334 <220> FEATURE:
 335 <223> OTHER INFORMATION: Modified sequence of finger 1 of zif268
 337 <400> SEQUENCE: 14
 339 Arg Ser Asp Glu Leu Thr Arg His
 340 1 5
 343 <210> SEQ ID NO: 15
 344 <211> LENGTH: 6
 345 <212> TYPE: PRT

RAW SEQUENCE LISTING ERROR SUMMARY
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; Xaa Pos. 1,2,4,5,6,7,8,10,11,13,14,15,16,17,19,20,22,23,24,25,27,28
Seq#:1; Xaa Pos. 29,30,31,32
Seq#:8; N Pos. 22,23,28,29,31,32,34,35,37,38,40,41
Seq#:11; N Pos. 28,29,31,32,34,35,37,38,40,41,43,44
Seq#:12; N Pos. 26,27,29,30,32,33,35,36,38,39,44,45
Seq#:32; Xaa Pos. 4
Seq#:37; N Pos. 10
Seq#:38; N Pos. 10
Seq#:39; Xaa Pos. 67